

## A NEW COMBINATION IN *LUDWIGIA* (ONAGRACEAE)

*Jussiaea dodecandra* has been described by De Candolle (1828) based on material collected in Guyana. This taxon has been considered as a variety of *Jussiaea affinis* DC. (Munz, 1942) or *Ludwigia affinis* (DC.) Hara (Munz, 1965) of sect. *Seminuda*, based on its minutely puberulent pubescence, which differs from the pilose indument of *Ludwigia affinis*. Recent relevant differential data indicates that the chromosome number for this taxon is  $n = 24$  (this paper). This is different from *Ludwigia affinis* with  $n = 32$  and  $40$  (Raven & Tai, 1979) and has so far been reported in this section for two other unrelated species (Raven & Tai, 1979; see also key below). As a result, we consider this taxon to be best treated at the specific level, for which the new combination is needed.

***Ludwigia dodecandra*** (DC.) Zardini & Raven, comb. nov. *Jussiaea dodecandra* DC. Prodr. 3: 53. 1828. *Jussiaea affinis* var. *dodecandra* (DC.) Munz, Darwiniana 4: 261. 1942. *Ludwigia affinis* var. *dodecandra* (DC.) Munz, N. Amer. Fl., ser. 2, 5: 36. 1965. TYPE: Guyana. Demerara, Parker in 1826 (holotype, G-DC, photos POM and F 7897; isotypes, K, U).

Voucher for chromosome number,  $n = 24$ , counted by Hongya Gu: French Guiana. Saül, entrée du village, Granville et al. 9062 (CAY, MO).

*Additional specimens examined.* COSTA RICA. GUANACASTE: El Arenal, Standley & Valerio 45417 (F). PANAMA. BOCAS DEL TORO: Chiriquí Lagoon, Wedel 1884 (MO); Changuinola River, Dunlap 391 (F). CANAL ZONE: Barro Colorado Island, north shoreline of Gigante Bay, Croat 13972 (MO). COCLÉ: boca del Toabré, confluence Río Toabré and Río Coclé del Norte, Lewis et al. 5564 (MO). COLÓN: ca. 0.5 km from Río Buenaventura, near Portobelo, Kennedy 2238 (MO). COLOMBIA. CHOCÓ: Acañadí, Ordoñez et al. 072 (MO). FRENCH GUIANA: St. Laurent-Paul Isnard, between PK 100 and 120, Granville 5198 (CAY, MO); Granville 5197 (CAY, MO); Montagne Bellevue de l'Inini, Granville et al. 8074 (MO), 7852 (MO); Saul, tracé ORSTOM Belvedere Est PK 2, Granville 3137 (CAY, MO); Saul, Carbet Mais Trail, vicinity of Crique Popote, Prance 28108 (MO); River Approuage, between "saut" and crique Couata, Oldeman T-61 (CAY,

MO); region of contact between Sommet Tabulaire and Massif des Emerillons, Granville 3747 (CAY, MO); Monts Bakra, 3 km W of Pic Coudreau, Granville 4138 (CAY, MO). GUYANA: Mbura Hill, Maas et al. 5899 (MO).

*Ludwigia dodecandra* can be distinguished from the other species of sect. *Seminuda* by the following key:

### KEY TO DISTINGUISH THE SPECIES OF *LUDWIGIA* SECT. *SEMINUDA*

- 1a. Flowers 4-merous.
  - 2a. Sepals 2.5–4.5 mm long, plants finely puberulent,  $n = 24$  .....  
..... *Ludwigia africana* (Brenan) Hara
  - 2b. Sepals 6–10 mm long, plants pilose,  $n = 8$  .....  
..... *Ludwigia quadrangularis* (Mich.) Hara
- 1b. Flowers 5–6-merous.
  - 3a. Leaves lanceolate, sepals 5–8 mm long, disc flat, raphe  $\frac{1}{6}$ – $\frac{1}{8}$  the width of the seed body,  $n = 16, 24$  .....  
..... *Ludwigia leptocarpa* (Nutt.) Hara
  - 3b. Leaves ovate, sepals 3.5–5 mm long, disc elevated, raphe  $\frac{1}{3}$ – $\frac{1}{4}$  the width of the seed body.
    - 4a. Plants pilose,  $n = 32, 40$  .....  
..... *Ludwigia affinis* (DC.) Hara
    - 4b. Plants minutely puberulent,  $n = 24$  .....  
..... *Ludwigia dodecandra* (DC.)  
Zardini & Raven

We are grateful to Jean-Jacques de Granville for providing materials for chromosome counts and to Hongya Gu for counting them.

### LITERATURE CITED

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RAVEN, P. H. & W. TAI. 1979. Observations of chromosomes in *Ludwigia* (Onagraceae). Ann. Missouri Bot. Gard. 66: 862–879.

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